

WEST Search History

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DATE: Friday, January 13, 2006

Hide?	Set Name	Query	Hit Count
		<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI; THES=ASSIGNEE; PLUR=YES; OP=ADJ</i>	
<input type="checkbox"/>	L11	L8 and (active site cysteine same glutamine)	46
<input type="checkbox"/>	L10	L8 and (cystein same glutamine)	0
<input type="checkbox"/>	L9	L8 and (active site cystein same glutamine)	0
<input type="checkbox"/>	L8	L6 and (ketosynthase or ketosynthetase)	123
<input type="checkbox"/>	L7	L6 and (keto adj synthase or keto adj synthetase)	6
<input type="checkbox"/>	L6	L2 and (loading adj2 (domain or module))	164
<input type="checkbox"/>	L5	L2 and (load\$ adj2 (domain or module))	166
<input type="checkbox"/>	L4	L2 and (load\$ adj2 (domain or modul\$2))	166
<input type="checkbox"/>	L3	L2 and (load\$ adj2 (domain or modul\$5))	166
<input type="checkbox"/>	L2	polyketide adj (synthase or synthetase)	868
<input type="checkbox"/>	L1	polyketide adj (synthase mor synthetase)	0

END OF SEARCH HISTORY

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Search Results - Record(s) 1 through 6 of 6 returned.

☐ 1. Document ID: US 20050273884 A1

Using default format because multiple data bases are involved.

L7: Entry 1 of 6

File: PGPB

Dec 8, 2005

PGPUB-DOCUMENT-NUMBER: 20050273884

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050273884 A1

TITLE: PUFA polyketide synthase systems and uses thereof

PUBLICATION-DATE: December 8, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Metz, James G.	Longmont	CO	US
Flatt, James H.	Longmont	CO	US
Kuner, Jerry M.	Longmont	CO	US
Barclay, William R.	Boulder	CO	US

US-CL-CURRENT: 800/281, 435/193, 435/419, 435/468, 435/6, 435/69.1, 536/23.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw D
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☐ 2. Document ID: US 20050273883 A1

L7: Entry 2 of 6

File: PGPB

Dec 8, 2005

PGPUB-DOCUMENT-NUMBER: 20050273883

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050273883 A1

TITLE: Pufa polyketide synthase systems and uses thereof

PUBLICATION-DATE: December 8, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Metz, James G.	Longmont	CO	US
Flatt, James H.	Longmont	CO	US
Kuner, Jerry M.	Longmont	CO	US
Barclay, William R.	Boulder	CO	US

US-CL-CURRENT: [800/281](#); [435/193](#), [435/419](#), [435/468](#), [435/6](#), [435/69.1](#), [536/23.2](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Drawings
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☐ 3. Document ID: US 20050266440 A1

L7: Entry 3 of 6

File: PGPB

Dec 1, 2005

PGPUB-DOCUMENT-NUMBER: 20050266440

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050266440 A1

TITLE: PUFA polyketide synthase systems and uses thereof

PUBLICATION-DATE: December 1, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Metz, James G.	Longmont	CO	US
Flatt, James H.	Longmont	CO	US
Kuner, Jerry M.	Longmont	CO	US
Barclay, William R.	Boulder	CO	US

US-CL-CURRENT: [435/6](#); [435/134](#), [435/193](#), [435/252.3](#), [435/320.1](#), [435/69.1](#), [536/23.2](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Drawings
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☐ 4. Document ID: US 20050100995 A1

L7: Entry 4 of 6

File: PGPB

May 12, 2005

PGPUB-DOCUMENT-NUMBER: 20050100995

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050100995 A1

TITLE: PUFA polyketide synthase systems and uses thereof

PUBLICATION-DATE: May 12, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Weaver, Craig A.	Boulder	CO	US
Zirkle, Ross	Longmont	CO	US
Metz, James G.	Longmont	CO	US

US-CL-CURRENT: [435/134](#); [435/189](#), [435/193](#), [435/252.3](#), [435/320.1](#), [435/69.1](#), [536/23.2](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Drawings
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☐ 5. Document ID: US 20040235127 A1

L7: Entry 5 of 6

File: PGPB

Nov 25, 2004

PGPUB-DOCUMENT-NUMBER: 20040235127

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040235127 A1

TITLE: PUFA polyketide synthase systems and uses thereof

PUBLICATION-DATE: November 25, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Metz, James G.	Longmont	CO	US
Weaver, Craig A.	Boulder	CO	US
Barclay, William R.	Boulder	CO	US
Flatt, James H.	Longmont	CO	US

US-CL-CURRENT: 435/183

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. De
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☐ 6. Document ID: US 20020194641 A1

L7: Entry 6 of 6

File: PGPB

Dec 19, 2002

PGPUB-DOCUMENT-NUMBER: 20020194641

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020194641 A1

TITLE: PUFA polyketide synthase systems and uses thereof

PUBLICATION-DATE: December 19, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Metz, James G.	Longmont	CO	US
Flatt, James H.	Longmont	CO	US
Kuner, Jerry M.	Longmont	CO	US
Barclay, William R.	Boulder	CO	US

US-CL-CURRENT: 800/281; 435/193, 435/252.3, 435/320.1, 435/69.1, 435/76, 536/23.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. De
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Documents

L6 and (keto adj synthase or keto adj synthetase)

6

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Search Results - Record(s) 1 through 30 of 46 returned.

☐ 1. Document ID: US 20050233431 A1

Using default format because multiple data bases are involved.

L11: Entry 1 of 46

File: PGPB

Oct 20, 2005

PGPUB-DOCUMENT-NUMBER: 20050233431

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050233431 A1

TITLE: Recombinant narbonolide polyketide synthase

PUBLICATION-DATE: October 20, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Ashley, Gary	Alameda	CA	US
Betlach, Melanie C.	San Francisco	CA	US
Betlach, Mary	San Francisco	CA	US
McDaniel, Robert	Palo Alto	CA	US
Tang, Li	Foster City	CA	US

US-CL-CURRENT: 435/196; 435/252.35, 435/471, 435/69.1, 536/23.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KVMC	Draw. De
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☐ 2. Document ID: US 20050176653 A1

L11: Entry 2 of 46

File: PGPB

Aug 11, 2005

PGPUB-DOCUMENT-NUMBER: 20050176653

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050176653 A1

TITLE: Polyene polyketides and methods of production

PUBLICATION-DATE: August 11, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
McAlpine, James B.	Montreal		CA
Farnet, Chris M.	Outremont		CA
Zazopoulos, Emmanuel	Montreal		CA

Sorensen, Dan

Montreal

CA

US-CL-CURRENT: 514/25; 536/17.4, 536/18.7

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KVMC	Draw. De
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☐ 3. Document ID: US 20050112726 A1

L11: Entry 3 of 46

File: PGPB

May 26, 2005

PGPUB-DOCUMENT-NUMBER: 20050112726

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050112726 A1

TITLE: Biosynthetic gene cluster for leptomycins

PUBLICATION-DATE: May 26, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Hu, Zhihao	Castro Valley	CA	US
Reid, Ralph	San Rafael	CA	US

US-CL-CURRENT: 435/75; 435/193, 435/252.3, 435/320.1, 435/69.1, 536/23.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KVMC	Draw. De
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☐ 4. Document ID: US 20050090461 A1

L11: Entry 4 of 46

File: PGPB

Apr 28, 2005

PGPUB-DOCUMENT-NUMBER: 20050090461

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050090461 A1

TITLE: Polyketides and their synthesis

PUBLICATION-DATE: April 28, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Leadlay, Peter Francis	Cambridge	CT	GB
Staunton, James	Cambridge		GB
Cortes, Jesus	Cambridge		GB
McArthur, Hamish Alastair Irvine	Mystic		US

US-CL-CURRENT: 514/29; 536/7.4

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KVMC	Draw. De
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☐ 5. Document ID: US 20050026244 A1

L11: Entry 5 of 46

File: PGPB

Feb 3, 2005

PGPUB-DOCUMENT-NUMBER: 20050026244

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050026244 A1

TITLE: Recombinant narbonolide polyketide synthase

PUBLICATION-DATE: February 3, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Ashley, Gary	Alameda	CA	US
Betlach, Melanie C.	San Francisco	CA	US
Betlach, Mary	San Francisco	CA	US
McDaniel, Robert	Palo Alto	CA	US
Tang, Li	Foster City	CA	US

US-CL-CURRENT: 435/69.1; 435/193, 435/196, 435/252.3, 435/320.1, 536/23.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 6. Document ID: US 20040253697 A1

L11: Entry 6 of 46

File: PGPB

Dec 16, 2004

PGPUB-DOCUMENT-NUMBER: 20040253697

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040253697 A1

TITLE: Recombinant methods and materials for producing epothilone and epothilone derivatives

PUBLICATION-DATE: December 16, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Julien, Bryan	Oakland	CA	US
Katz, Leonard	Oakland	CA	US
Khosla, Chaitan	Palo Alto	CA	US
Tang, Li	Foster City	CA	US
Ziermann, Rainer	San Mateo	CA	US

US-CL-CURRENT: 435/193; 435/252.3, 435/320.1, 435/69.1, 536/23.5

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 7. Document ID: US 20040224394 A1

L11: Entry 7 of 46

File: PGPB

Nov 11, 2004

PGPUB-DOCUMENT-NUMBER: 20040224394

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040224394 A1

TITLE: Recombinant Streptomyces hygroscopicus host cells that produce 17-desmethyldrapamycin

PUBLICATION-DATE: November 11, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Katz, Leonard	Oakland	CA	US
Liu, Lu	Redwood City	CA	US
Chung, Loleta M.	San Francisco	CA	US

US-CL-CURRENT: 435/119; 435/252.3, 540/456

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KVMC	Draw. De
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☐ 8. Document ID: US 20040219645 A1

L11: Entry 8 of 46

File: PGPB

Nov 4, 2004

PGPUB-DOCUMENT-NUMBER: 20040219645

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040219645 A1

TITLE: Polyketides and their synthesis

PUBLICATION-DATE: November 4, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Leadley, Peter Francis	Cambridge		GB
Staunton, James	Cambridge		GB
Oliynyk, Mark Yan	Cambridge		GB

US-CL-CURRENT: 435/76

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KVMC	Draw. De
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☐ 9. Document ID: US 20040185541 A1

L11: Entry 9 of 46

File: PGPB

Sep 23, 2004

PGPUB-DOCUMENT-NUMBER: 20040185541

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040185541 A1

TITLE: Heterologous production of polyketides

PUBLICATION-DATE: September 23, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Santi, Daniel	San Francisco	CA	US
Dayem, Linda	San Anselmo	CA	US
Kealey, James	San Anselmo	CA	US

US-CL-CURRENT: 435/134; 435/233

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 10. Document ID: US 20040018597 A1

L11: Entry 10 of 46

File: PGPB

Jan 29, 2004

PGPUB-DOCUMENT-NUMBER: 20040018597

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040018597 A1

TITLE: Methods for making polyketides

PUBLICATION-DATE: January 29, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Khosla, Chaitan	Palo Alto	CA	US
Lau, Janice	Stanford	CA	US
Pohl, Nicola L.	Menlo Park	CA	US

US-CL-CURRENT: 435/75; 435/193, 435/252.3, 435/320.1, 435/69.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 11. Document ID: US 20040005672 A1

L11: Entry 11 of 46

File: PGPB

Jan 8, 2004

PGPUB-DOCUMENT-NUMBER: 20040005672

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040005672 A1

TITLE: Heterologous production of polyketides

PUBLICATION-DATE: January 8, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Santi, Daniel V.	San Francisco	CA	US
Khosla, Chaitan	Stanfrod	CA	US

US-CL-CURRENT: [435/76](#); [435/193](#), [435/254.2](#), [435/320.1](#), [435/483](#), [435/69.1](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 12. Document ID: US 20030235892 A1

L11: Entry 12 of 46

File: PGPB

Dec 25, 2003

PGPUB-DOCUMENT-NUMBER: 20030235892

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030235892 A1

TITLE: Production of polyketides

PUBLICATION-DATE: December 25, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Katz, Leonard	Oakland	CA	US
Revill, Peter	Oakland	CA	US

US-CL-CURRENT: [435/76](#); [435/193](#), [435/252.3](#), [435/320.1](#), [435/69.1](#), [536/23.2](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 13. Document ID: US 20030194784 A1

L11: Entry 13 of 46

File: PGPB

Oct 16, 2003

PGPUB-DOCUMENT-NUMBER: 20030194784

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030194784 A1

TITLE: DNA encoding methymycin and pikromycin

PUBLICATION-DATE: October 16, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Sherman, David H.	St. Louis Park	MN	US
Liu, Hung-Wen	Austin	TX	US
Xue, Yongquan	Shoreview	MN	US
Zhao, Lishan	Carlsbad	CA	US

US-CL-CURRENT: [435/75](#); [435/193](#), [435/252.3](#), [435/320.1](#), [435/69.1](#), [536/23.2](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	K/MC	Draw. De
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☐ 14. Document ID: US 20030175901 A1

L11: Entry 14 of 46

File: PGPB

Sep 18, 2003

PGPUB-DOCUMENT-NUMBER: 20030175901
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030175901 A1

TITLE: Polynucleotides encoding the fkbA gene of the FK-520 polyketide synthase
gene cluster

PUBLICATION-DATE: September 18, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Reeves, Christopher	Orinda	CA	US
Chu, Daniel	Santa Clara	CA	US
Khosla, Chaitan	Palo Alto	CA	US
Santi, Daniel	San Francisco	CA	US
Wu, Kai	Foster City	CA	US

US-CL-CURRENT: 435/76; 435/193, 435/196, 435/252.3, 435/320.1, 435/69.1, 536/23.2,
540/456

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	K/MC	Draw. De
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☐ 15. Document ID: US 20030162262 A1

L11: Entry 15 of 46

File: PGPB

Aug 28, 2003

PGPUB-DOCUMENT-NUMBER: 20030162262
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030162262 A1

TITLE: Recombinant narbonolide polyketide synthase

PUBLICATION-DATE: August 28, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Ashley, Gary	Alameda	CA	US
Betlach, Melanie C.	Burlingame	CA	US
Betlach, Mary	San Francisco	CA	US
McDaniel, Robert	Palo Alto	CA	US
Tang, Li	Foster City	CA	US

US-CL-CURRENT: 435/76; 435/193, 435/252.3, 435/320.1, 435/6, 435/69.1, 536/23.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 16. Document ID: US 20030104597 A1

L11: Entry 16 of 46

File: PGPB

Jun 5, 2003

PGPUB-DOCUMENT-NUMBER: 20030104597

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030104597 A1

TITLE: Recombinant narbonolide polyketide synthase

PUBLICATION-DATE: June 5, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Ashley, Gary	Alameda	CA	US
Betlach, Melanie C.	San Francisco	CA	US
Betlach, Mary	San Francisco	CA	US
McDaniel, Robert	Palo Alto	CA	US
Tang, Li	Foster City	CA	US

US-CL-CURRENT: 435/193; 435/196, 435/200, 435/252.3, 435/320.1, 536/23.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 17. Document ID: US 20030096381 A1

L11: Entry 17 of 46

File: PGPB

May 22, 2003

PGPUB-DOCUMENT-NUMBER: 20030096381

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030096381 A1

TITLE: Production of polyketides

PUBLICATION-DATE: May 22, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Julien, Bryan	Oakland	CA	US
Katz, Leonard	Hayward	CA	US
Khosla, Chaitan	Palo Alto	CA	US

US-CL-CURRENT: 435/118; 435/193, 435/252.3, 435/320.1, 435/69.1, 536/23.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 18. Document ID: US 20030073205 A1

L11: Entry 18 of 46

File: PGPB

Apr 17, 2003

PGPUB-DOCUMENT-NUMBER: 20030073205
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030073205 A1

TITLE: Production of polyketides

PUBLICATION-DATE: April 17, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Arslanian, Robert L.	Pacifica	CA	US
Ashley, Gary	Alameda	CA	US
Frykman, Scott	Hayward	CA	US
Julien, Bryan	Oakland	CA	US
Katz, Leonard	Oakland	CA	US
Khosla, Chaitan	Palo Alto	CA	US
Lau, Janice	San Mateo	CA	US
Licari, Peter J.	Fremont	CA	US
Regentin, Rika	Hayward	CA	US
Santi, Daniel	San Francisco	CA	US
Tang, Li	Foster City	CA	US

US-CL-CURRENT: [435/117](#); [435/123](#), [435/252.3](#), [544/333](#), [546/148](#), [546/167](#), [546/281.7](#),
[548/204](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Drawings
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☐ 19. Document ID: US 20030068676 A1

L11: Entry 19 of 46

File: PGPB

Apr 10, 2003

PGPUB-DOCUMENT-NUMBER: 20030068676
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030068676 A1

TITLE: Methods to mediate polyketide synthase module effectiveness

PUBLICATION-DATE: April 10, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Gokhale, Rajesh S.	New Delhi	CA	IN
Tsuji, Stuart	Stanford	CA	US
Khosla, Chaitan	Palo Alto		US

US-CL-CURRENT: [435/69.1](#); [435/200](#), [435/320.1](#), [435/325](#), [435/7.1](#), [435/76](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 20. Document ID: US 20030027287 A1

L11: Entry 20 of 46

File: PGPB

Feb 6, 2003

PGPUB-DOCUMENT-NUMBER: 20030027287

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030027287 A1

TITLE: Recombinant oleandolide polyketide synthase

PUBLICATION-DATE: February 6, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Betlach, Mary C.	San Francisco	CA	US
Shah, Sanjay Krishnakant	Concord	CA	US
McDaniel, Robert	Palo Alto	CA	US
Tang, Li	Foster City	CA	US

US-CL-CURRENT: 435/76; 435/183, 435/320.1, 435/325, 435/69.1, 536/23.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 21. Document ID: US 20020168730 A1

L11: Entry 21 of 46

File: PGPB

Nov 14, 2002

PGPUB-DOCUMENT-NUMBER: 20020168730

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020168730 A1

TITLE: Production of 8,8a-dihydroxy-6-deoxyerythronolide B

PUBLICATION-DATE: November 14, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
McDaniel, Robert	Palo Alto	CA	US

US-CL-CURRENT: 435/75; 435/252.3

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 22. Document ID: US 20020142401 A1

L11: Entry 22 of 46

File: PGPB

Oct 3, 2002

PGPUB-DOCUMENT-NUMBER: 20020142401
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020142401 A1

TITLE: Isolated gene for methylmalonyl CoA epimerase and uses thereof

PUBLICATION-DATE: October 3, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Santi, Daniel	San Francisco	CA	US
Dayem, Linda	Belmont	CA	US
Kealey, James	San Rafael	CA	US

US-CL-CURRENT: 435/76; 435/252.3, 435/320.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Drawings
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☐ 23. Document ID: US 20020010328 A1

L11: Entry 23 of 46

File: PGPB

Jan 24, 2002

PGPUB-DOCUMENT-NUMBER: 20020010328
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020010328 A1

TITLE: Polyketide synthase enzymes and recombinant DNA constructs therefor

PUBLICATION-DATE: January 24, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Reeves, Christopher	Orinda	CA	US
Chu, Daniel	Santa Clara	CA	US
Khosla, Chaitan	Palo Alto	CA	US
Santi, Daniel	San Francisco	CA	US
Wu, Kai	Foster City	CA	US

US-CL-CURRENT: 540/456; 435/183, 536/23.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Drawings
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☐ 24. Document ID: US 20010051356 A1

L11: Entry 24 of 46

File: PGPB

Dec 13, 2001

PGPUB-DOCUMENT-NUMBER: 20010051356
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20010051356 A1

TITLE: Methods for making polyketides

PUBLICATION-DATE: December 13, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Khosla, Chaitan	Stanford	CA	US
Lau, Janice	Stanford	CA	US
Pohl, Nicola L.	Menlo Park	CA	US

US-CL-CURRENT: [435/41](#); [435/148](#), [435/193](#), [435/64](#), [435/76](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KVMC	Draw D
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☐ 25. Document ID: US 20010034046 A1

L11: Entry 25 of 46

File: PGPB

Oct 25, 2001

PGPUB-DOCUMENT-NUMBER: 20010034046

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20010034046 A1

TITLE: Production of 8,8a-dihydroxy-6-deoxyerythronolide B

PUBLICATION-DATE: October 25, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
McDaniel, Robert	Palo Alto	CA	US

US-CL-CURRENT: [435/76](#); [536/7.2](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KVMC	Draw D
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☐ 26. Document ID: US 6960453 B1

L11: Entry 26 of 46

File: USPT

Nov 1, 2005

US-PAT-NO: 6960453

DOCUMENT-IDENTIFIER: US 6960453 B1

TITLE: Hybrid polyketide synthases combining heterologous loading and extender modules

DATE-ISSUED: November 1, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Leadlay; Peter Francis	Cambridge			GB
Staunton; James	Cambridge			GB

Cortes; Jesus

Cambridge

GB

US-CL-CURRENT: [435/76](#); [435/183](#), [435/252.3](#), [435/252.35](#), [435/320.1](#), [435/471](#),
[536/23.1](#), [536/23.2](#), [536/23.7](#)

ABSTRACT:

A hybrid type I polyketide synthase gene typically containing a starter module and a plurality of heterologous extender modules is used to synthesize novel polyketides. It is preferably under the control of a type II polypolyketide synthase promoter e.g. act I of *S. coelicolor*.

28 Claims, 46 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 46

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. De
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☐ 27. Document ID: US 6921650 B1

L11: Entry 27 of 46

File: USPT

Jul 26, 2005

US-PAT-NO: 6921650

DOCUMENT-IDENTIFIER: US 6921650 B1

TITLE: Recombinant methods and materials for producing epothilone and epothilone derivatives

DATE-ISSUED: July 26, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Julien; Bryan	Oakland	CA		
Katz; Leonard	Hayward	CA		
Khosla; Chaitan	Palo Alto	CA		
Tang; Li	Foster City	CA		
Ziermann; Rainer	San Mateo	CA		

US-CL-CURRENT: [435/76](#); [435/252.31](#), [435/252.33](#), [536/23.1](#), [536/23.2](#), [536/23.7](#)

ABSTRACT:

Recombinant nucleic acids that encode all or a portion of the epothilone polyketide synthase (PKS) are used to express recombinant PKS genes in host cells for the production of epothilones, epothilone derivatives, and polyketides that are useful as cancer chemotherapeutics, fungicides, and immunosuppressants.

11 Claims, 9 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 8

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 28. Document ID: US 6902913 B2

L11: Entry 28 of 46

File: USPT

Jun 7, 2005

US-PAT-NO: 6902913

DOCUMENT-IDENTIFIER: US 6902913 B2

**** See image for Certificate of Correction ****TITLE: Recombinant narbonolide polyketide synthase

DATE-ISSUED: June 7, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Betlach; Melanie C.	Burlingame	CA		
Betlach; Mary	San Francisco	CA		
McDaniel; Robert	Palo Alto	CA		
Tang; Li	Foster City	CA		

US-CL-CURRENT: 435/72; 435/252.3, 435/252.33, 435/252.35, 435/320.1, 435/76,
536/23.2, 536/23.7

ABSTRACT:

Recombinant DNA compounds that encode all or a portion of the narbonolide polyketide synthase are used to express recombinant polyketide synthase genes in host cells for the production of narbonolide, narbonolide derivatives, and polyketides that are useful as antibiotics and as intermediates in the synthesis of compounds with pharmaceutical value.

18 Claims, 6 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 6

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 29. Document ID: US 6858411 B1

L11: Entry 29 of 46

File: USPT

Feb 22, 2005

US-PAT-NO: 6858411

DOCUMENT-IDENTIFIER: US 6858411 B1

**** See image for Certificate of Correction ****

TITLE: Recombinant methods and materials for producing epothilone and epothilone derivatives

DATE-ISSUED: February 22, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Julien; Bryan	Oakland	CA		
Katz; Leonard	Hayward	CA		
Khosla; Chaitan	Palo Alto	CA		
Tang; Li	Foster City	CA		
Ziermann; Rainer	San Mateo	CA		

US-CL-CURRENT: 435/76; 435/183, 435/252.31, 435/252.33, 536/23.1, 536/23.2,
536/23.7

ABSTRACT:

Recombinant nucleic acids that encode all or a portion of the epothilone polyketide synthase (PKS) are used to express recombinant PKS genes in host cells for the production of epothilones, epothilone derivatives, and polyketides that are useful as cancer chemotherapeutics, fungicides, and immunosuppressants.

5 Claims, 9 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 8

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 30. Document ID: US 6828126 B2

L11: Entry 30 of 46

File: USPT

Dec 7, 2004

US-PAT-NO: 6828126

DOCUMENT-IDENTIFIER: US 6828126 B2

TITLE: Methods for introducing hydroxyl or epoxide groups into polyketides using OleP

DATE-ISSUED: December 7, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
McDaniel; Robert	Palo Alto	CA		

US-CL-CURRENT: 435/76

ABSTRACT:

The heterologous expression of the oleandomycin polyketide synthase (OlePKS) in *Streptomyces lividans*, produces 8,8 a-deoxyoleandolide, an aglycone precursor of oleandomycin. The co-expression with deoxyerythronolide B synthase (DEBS) in *S. lividans* of the P450 monooxygenase OleP produces 8,8 a-dihydroxy-6-deoxyerythronolide B and other derivatives that are precursors to important macrolide antibiotics.

5 Claims, 2 Drawing figures

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Search Results - Record(s) 31 through 46 of 46 returned.

☐ 31. Document ID: US 6759536 B2

Using default format because multiple data bases are involved.

L11: Entry 31 of 46

File: USPT

Jul 6, 2004

US-PAT-NO: 6759536

DOCUMENT-IDENTIFIER: US 6759536 B2

TITLE: Polynucleotides encoding the fkbA gene of the FK-520 polyketide synthase gene cluster

DATE-ISSUED: July 6, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Reeves; Christopher	Orinda	CA		
Chu; Daniel	Santa Clara	CA		
Khosla; Chaitan	Palo Alto	CA		
Santi; Daniel	San Francisco	CA		
Wu; Kai	Foster City	CA		

US-CL-CURRENT: 546/71

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw. De
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☐ 32. Document ID: US 6753173 B1

L11: Entry 32 of 46

File: USPT

Jun 22, 2004

US-PAT-NO: 6753173

DOCUMENT-IDENTIFIER: US 6753173 B1

TITLE: Methods to mediate polyketide synthase module effectiveness

DATE-ISSUED: June 22, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Gokhale; Rajesh S.	Delhi			IN
Tsuji; Stuart	Stanford	CA		
Khosla; Chaitan	Palo Alto	CA		

US-CL-CURRENT: 435/183

ABSTRACT:

Linking sequences that modulate cross-talk between modules of Type I polyketide synthases have been identified and methods for their use are described. Arbitrarily chosen modules can be mixed and matched by supplying the appropriate linkers to facilitate transfer of a growing polyketide chain between modules. Employing these techniques, new polyketide end products may be obtained.

28 Claims, 3 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 3

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw De
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☐ 33. Document ID: US 6670168 B1

L11: Entry 33 of 46

File: USPT

Dec 30, 2003

US-PAT-NO: 6670168

DOCUMENT-IDENTIFIER: US 6670168 B1

TITLE: Recombinant *Streptomyces hygroscopicus* host cells that produce 17-desmethyrapamycin

DATE-ISSUED: December 30, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Katz; Leonard	Oakland	CA		
Liu; Lu	Redwood City	CA		
Chung; Loleta M.	San Francisco	CA		

US-CL-CURRENT: 435/252.35

ABSTRACT:

Recombinant host cells that produce rapamycin analogues are constructed by deleting or modifying rapamycin biosynthetic gene cluster genes and are useful in the production of compounds used as antifungals, anticancers, immunosuppressants, and neurotrophins.

1 Claims, 2 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw De
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☐ 34. Document ID: US 6660862 B2

L11: Entry 34 of 46

File: USPT

Dec 9, 2003

US-PAT-NO: 6660862

DOCUMENT-IDENTIFIER: US 6660862 B2

TITLE: Polyketide synthase enzymes and recombinant DNA constructs therefor

DATE-ISSUED: December 9, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Reeves; Christopher	Orinda	CA		
Chu; Daniel	Santa Clara	CA		
Khosla; Chaitan	Palo Alto	CA		
Santi; Daniel	San Francisco	CA		
Wu; Kai	Foster City	CA		

US-CL-CURRENT: 546/92

ABSTRACT:

Polyketide compounds of the formula but not including FK-506, FK-520, 18-hydroxy-FK520 and 18-hydroxy-FK-506. ##STR1##

46 Claims, 9 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 9

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. D
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☐ 35. Document ID: US 6627427 B1

L11: Entry 35 of 46

File: USPT

Sep 30, 2003

US-PAT-NO: 6627427

DOCUMENT-IDENTIFIER: US 6627427 B1

TITLE: Heterologous production of 15-methyl-6-deoxyerthronolide B

DATE-ISSUED: September 30, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Katz; Leonard	Oakland	CA		
Revill; Peter	Oakland	CA		

US-CL-CURRENT: 435/252.3

ABSTRACT:

Recombinant host cells that comprise recombinant DNA expression vectors that drive

expression of a product and a precursor for biosynthesis of that product can be used to produce useful products such as polyketides in host cells that do not naturally produce the product or produce the product at low levels due to the absence of the precursor or the presence of the precursor in rate limiting amounts.

12 Claims, 20 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 20

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw.D
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☐ 36. Document ID: US 6583290 B1

L11: Entry 36 of 46

File: USPT

Jun 24, 2003

US-PAT-NO: 6583290
DOCUMENT-IDENTIFIER: US 6583290 B1

TITLE: 14-methyl epothilone derivatives

DATE-ISSUED: June 24, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Julien; Bryan	Oakland	CA		
Katz; Leonard	Hayward	CA		
Khosla; Chaitan	Palo Alto	CA		
Tang; Li	Foster City	CA		
Ziermann; Rainer	San Mateo	CA		

US-CL-CURRENT: 548/203; 181/205, 546/268.1

ABSTRACT:

Compounds of the invention include 14-mehtyl epothilone derivatives. More generally, preferred compounds of the invention are those that can be produced by altering the epothilone PKS genes as described herein and optionally by action of epothilone modification enzymes and/or by chemically modifying the resulting epothilones produces when those genes are expressed.

2 Claims, 9 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 8

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw.D
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☐ 37. Document ID: US 6551802 B2

L11: Entry 37 of 46

File: USPT

Apr 22, 2003

US-PAT-NO: 6551802
DOCUMENT-IDENTIFIER: US 6551802 B2

TITLE: Methods for making polyketides

DATE-ISSUED: April 22, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Khosla; Chaitan	Palo Alto	CA		
Lau; Janice	Stanford	CA		
Pohl; Nicola L.	Stanford	CA		

US-CL-CURRENT: 435/76; 435/183

ABSTRACT:

The stereochemical centers of a polyketide can be changed by replacement of ketosynthase domains in the polyketide synthase (PKS) enzyme that produces the polyketide. The specificity of the AT domains of a PKS is determined by a hypervariable region that can be replaced or altered to change the specificity of the AT domain from a naturally occurring extender unit to another naturally or non-naturally occurring extender unit. Non-naturally occurring extender units, including methylmalonyl N-acetyl cysteamine thioester can be incorporated into polyketides in recombinant host cells or in cell-free systems to make polyketides.

7 Claims, 3 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 3

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. De
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☐ 38. Document ID: US 6524841 B1

L11: Entry 38 of 46

File: USPT

Feb 25, 2003

US-PAT-NO: 6524841
DOCUMENT-IDENTIFIER: US 6524841 B1

TITLE: Recombinant megalomicin biosynthetic genes and uses thereof

DATE-ISSUED: February 25, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
McDaniel; Robert	Palo Alto	CA		
Volchegursky; Yanina	Emeryville	CA		

US-CL-CURRENT: 435/252.3; 435/252.35, 435/254.11, 435/320.1, 435/325, 435/419,
536/23.1, 536/23.2, 536/23.7

ABSTRACT:

Recombinant nucleic acids that encode all or a portion of the megAI gene of the megalomicin polyketide synthase (PKS) of Micromonospora megalomicea are used to produce recombinant PKS enzymes in host cells to make megalomicin, megalomicin derivatives, and other polyketides that are useful as antibiotics, motilides, and antiparasitics.

7 Claims, 70 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 70

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KVMC	Draw. De
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☐ 39. Document ID: US 6509455 B1

L11: Entry 39 of 46

File: USPT

Jan 21, 2003

US-PAT-NO: 6509455

DOCUMENT-IDENTIFIER: US 6509455 B1

TITLE: Recombinant narbonolide polyketide synthase

DATE-ISSUED: January 21, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ashley; Gary	Alameda	CA		
Betlach; Melanie C.	Burlingame	CA		
Betlach; Mary	San Francisco	CA		
McDaniel; Robert	Palo Alto	CA		
Tang; Li	Foster City	CA		

US-CL-CURRENT: 536/23.2; 435/193, 435/320.1, 536/23.7

ABSTRACT:

Recombinant DNA compounds that encode all or a portion of the narbonolide polyketide synthase are used to express recombinant polyketide synthase genes in host cells for the production of narbonolide, narbonolide derivatives, and polyketides that are useful as antibiotics and as intermediates in the synthesis of compounds with pharmaceutical value.

2 Claims, 6 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 6

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KVMC	Draw. De
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☐ 40. Document ID: US 6503737 B1

L11: Entry 40 of 46

File: USPT

Jan 7, 2003

US-PAT-NO: 6503737

DOCUMENT-IDENTIFIER: US 6503737 B1

TITLE: Isolated nucleic acids relating to the fkbA gene within the FK-520
polyketide synthase gene cluster

DATE-ISSUED: January 7, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Reeves; Christopher	Orinda	CA		
Chu; Daniel	Santa Clara	CA		
Khosla; Chaitan	Palo Alto	CA		
Santi; Daniel	San Francisco	CA		
Wu; Kai	Foster City	CA		

US-CL-CURRENT: 435/76; 435/252.3, 435/252.35, 435/320.1, 536/23.1, 536/23.2

ABSTRACT:

Host cells comprising recombinant vectors encoding the FK-520 polyketide synthase and FK-520 modification enzymes can be used to produce the FK-520 polyketide. Recombinant DNA constructs comprising one or more FK-520 polyketide synthase domains, modules, open reading frames, and variants thereof can be used to produce recombinant polyketide synthases and a variety of different polyketides with application as pharmaceutical and veterinary products.

34 Claims, 8 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 9

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 41. Document ID: US 6410301 B1

L11: Entry 41 of 46

File: USPT

Jun 25, 2002

US-PAT-NO: 6410301

DOCUMENT-IDENTIFIER: US 6410301 B1

TITLE: Myxococcus host cells for the production of epothilones

DATE-ISSUED: June 25, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Julien; Bryan	Oakland	CA		
Katz; Leonard	Hayward	CA		
Khosla; Chaitan	Palo Alto	CA		

US-CL-CURRENT: 435/252.3

ABSTRACT:

Recombinant Myxococcus host cell containing recombinant expression vectors containing epothilone polyketide synthase genes can produce epothilones C and D.

6 Claims, 4 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 4

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw De
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☐ 42. Document ID: US 6388099 B2

L11: Entry 42 of 46

File: USPT

May 14, 2002

US-PAT-NO: 6388099

DOCUMENT-IDENTIFIER: US 6388099 B2

TITLE: Production of 8,8a-dihydroxy-6-deoxyerythronolide B

DATE-ISSUED: May 14, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
McDaniel; Robert	Palo Alto	CA		

US-CL-CURRENT: 549/264

ABSTRACT:

The heterologous expression of the OlePKS in Streptomyces lividans, produces 8,8a-deoxyoleandolide, an aglycone precursor of oleandomycin. The co-expression with DEBS in S. lividans of the P450 monooxygenase OleP produces 8,8a-dihydroxy-6-deoxyerythronolide B and other derivatives that are precursors to important macrolide antibiotics.

15 Claims, 2 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw De
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☐ 43. Document ID: US 6303342 B1

L11: Entry 43 of 46

File: USPT

Oct 16, 2001

US-PAT-NO: 6303342

DOCUMENT-IDENTIFIER: US 6303342 B1

TITLE: Recombinant methods and materials for producing epothilones C and D

DATE-ISSUED: October 16, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Julien; Bryan	Oakland	CA		
Katz; Leonard	Hayward	CA		
Khosla; Chaitan	Palo Alto	CA		
Tang; Li	Foster City	CA		

US-CL-CURRENT: 435/76

ABSTRACT:

Recombinant nucleic acids that encode all or a portion of the epothilone polyketide synthase (PKS) are used to express recombinant PKS genes in host cells for the production of epothilones, epothilone derivatives, and polyketides that are useful as cancer chemotherapeutics, fungicides, and immunosuppressants.

29 Claims, 9 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 8

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. De
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☐ 44. Document ID: US 6251636 B1

L11: Entry 44 of 46

File: USPT

Jun 26, 2001

US-PAT-NO: 6251636

DOCUMENT-IDENTIFIER: US 6251636 B1

TITLE: Recombinant oleandolide polyketide synthase

DATE-ISSUED: June 26, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Betlach; Mary C.	San Francisco	CA		
Shah; Sanjay Krishnakant	Concord	CA		
McDaniel; Robert	Palo Alto	CA		
Tang; Li	Foster City	CA		

US-CL-CURRENT: 435/76; 435/252.35, 435/254.2, 435/320.1, 435/325, 435/419,
536/23.1, 536/23.2

ABSTRACT:

Recombinant DNA compounds that encode all or a portion of the oleandolide polyketide synthase are used to express recombinant polyketide synthase genes in

host cells for the production of oleandolide, oleandolide derivatives, and polyketides that are useful as antibiotics and motilides.

22 Claims, 5 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 5

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. D
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☐ 45. Document ID: US 6221641 B1

L11: Entry 45 of 46

File: USPT

Apr 24, 2001

US-PAT-NO: 6221641
DOCUMENT-IDENTIFIER: US 6221641 B1

TITLE: Method for making polyketides

DATE-ISSUED: April 24, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Khosla; Chaitan	Stanford	CA		
Lau; Janice	Stanford	CA		
Pohl; Nicola L.	Menlo Park	CA		

US-CL-CURRENT: 435/193; 435/69.1

ABSTRACT:

The stereochemical centers of a polyketide can be changed by replacement of ketosynthase domains in the polyketide synthase (PKS) enzyme that produces the polyketide. The specificity of the AT domains of a PKS is determined by a hypervariable region that can be replaced or altered to change the specificity of the AT domain from a naturally occurring extender unit to another naturally or non-naturally occurring extender unit. Non-naturally occurring extender units, including methylmalonyl N-acetyl cysteamine thioester can be incorporated into polyketides in recombinant host cells or in cell-free systems to make polyketides.

13 Claims, 3 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 3

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. D
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☐ 46. Document ID: US 6117659 A

L11: Entry 46 of 46

File: USPT

Sep 12, 2000

US-PAT-NO: 6117659

DOCUMENT-IDENTIFIER: US 6117659 A

TITLE: Recombinant narbonolide polyketide synthase

DATE-ISSUED: September 12, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ashley; Gary	Alameda	CA		
Betlach; Melanie C.	Burlingame	CA		
Betlach; Mary	San Francisco	CA		
McDaniel; Robert	Palo Alto	CA		
Tang; Li	Foster City	CA		

US-CL-CURRENT: 435/155, 435/132, 435/189, 435/252.3, 435/252.33, 435/252.35,
435/320.1, 536/23.2, 536/23.7

ABSTRACT:

Recombinant DNA compounds that encode all or a portion of the narbonolide polyketide synthase are used to express recombinant polyketide synthase genes in host cells for the production of narbonolide, narbonolide derivatives, and polyketides that are useful as antibiotics and as intermediates in the synthesis of compounds with pharmaceutical value.

11 Claims, 9 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 7

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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